



EXPRESS MAIL NO. EV 329631647 US

PATENT APPLICATION

Docket No: 15689.61

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Yukihiko OKUMURA et al.

Serial No.: 09/701,705) Art Unit
Filing Date: December 1, 2000) 2661
For: CHANNEL ESTIMATION DEVICE AND)
METHOD, DEMODULATION DEVICE AND)
METHOD, AND FADING FREQUENCY)
DECISION DEVICE AND METHOD)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

JUL 1 1 2003

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Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which

the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each non-English reference, if any, are also enclosed.

In accordance with 37 C.F.R. § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided. The concise explanation for each of the references is provided in the English abstract for that reference.

DATED July 7, 2003.

Respectfully submitted,



ADRIAN J. LEE
Attorney for Applicant
Registration No. 42,785



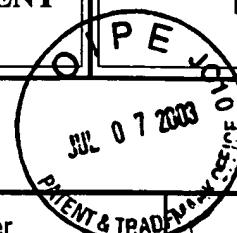
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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
15689.61

In Re Application: Yukihiko Okumura et al.



Serial No. 09/701,705	Filing Date December 1, 2000	Examiner Not Yet Assigned	Group Art Unit 2661
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**CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD,
FADING FREQUENCY DECISION DEVICE AND METHOD**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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Dated: July 7, 2003

ADRIAN J. LEE

Attorney for Applicant

Reg. No.: 42,785



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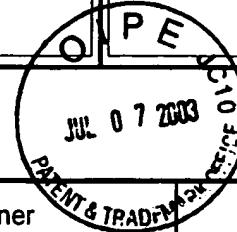
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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
15689.61

In Re Application Of: Yukihiko Okumura et al.



Serial No.	Filing Date	Examiner	Group Art Unit
09/701,705	December 1, 2000	Not Yet Assigned	2661

**Title: CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD, AND
FADING FREQUENCY DECISION DEVICE AND METHOD**

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37 CFR 1.97(b)

1. The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

the statement specified in 37 CFR 1.97(e);

OR

the fee set forth in 37 CFR 1.17(p).

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CERTIFICATE MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Yukihiko Okumura et al.

Docket No.

15689.61

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Serial No.

09/701,705

Filing Date

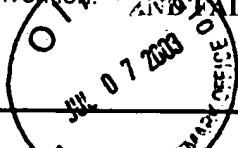
December 1, 2000

Examiner

Not Yet Assigned

Group Art Unit

2661

Invention: **E CHANNEL ESTIMATION DEVICE AND METHOD, DEMODULATION DEVICE AND METHOD,
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I hereby certify that the following correspondence:

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is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

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ADRIAN J. LEE

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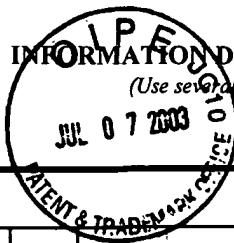
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Transmittal for Information Disclosure Statement (2 pages; duplicate);
 Information Disclosure Statement Under 37 C.F.R. § 1.97 (2 pages);
 Form PTO-1449 Listing of References (1 page);
 Legible Copy of References; (5 references)
 Certificate of Express Mail (EV329631647US);
 Acknowledgment Postcard



~~INFORMATION DISCLOSURE CITATION~~

(Use several sheets if necessary)

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Socket Number (Optional)

15689.61

Application Number

09/701,705

Applicant(s)

Yukihiko Okumura et al.

Filing Date

December 1, 2000

Group Art Unit

2661

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
1	09008770A	1/10/1997	Japan	H04J13	04	✓	
2	10051424A	2/20/1998	Japan	H04J13	04	✓	
3	11284990A	10/15/1999	Japan	H04N7	18	✓	
4	11186990A	7/9/1999	Japan	A04J13	04	✓	

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

5	<p>DS-CDMA; The Performance of Channel Estimation Method Using Adaptive Weighted Multi-Symbol Averaging (WMSA) with Pilot Channel in DS-CDMA</p> <p>Sadayuki Abeta, Mamoru Sawahashi, Fumiayuki Adachi NTT Mobile Communication Network Inc. page 67 to 79</p>

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.